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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604703N / <i>Personnel, Trng, Sim, & Human Factors</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	60.595	6.287	5.500	8.599	-	8.599	9.124	8.323	8.285	8.452	Continuing	Continuing
1822: <i>Manpower Pers & Human Fact System</i>	60.595	6.287	5.500	8.599	-	8.599	9.124	8.323	8.285	8.452	Continuing	Continuing

Note

This program is funded under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision along with the enhancement and upgrading of existing Manpower, Personnel, Training, and Education decision support systems, tools, and models.

A. Mission Description and Budget Item Justification

This program is funded under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision and the upgrading and enhancement of existing Manpower, Personnel, Training and Education (MPT&E) decision support systems, tools and models.

This non-acquisition category program provides funds for continued R&D for broader application of advanced technologies to transition successful research proof-of-concept demonstrations into operational use. This Program Element (PE) provides funding to support the transition of models and decision support tools from RDT&E funded to production and into the hands of analysts and program managers throughout the Manpower, Personnel, Training and Education enterprise. The PE also supports the application of proven industry models, tools and methodologies to Navy MPT&E problems where government-off-the-shelf (GOTS) solutions are non-existent. The second goal of the PE is to successfully implement 90% of the industry-standard tools that are attempted to be used in Navy applications. In FY21, there is a continued need to procure and advance the engineering development of systems from the Navy War Centers (e.g. NAWCTSD) and fiscally participate in the transition of MPTE-domain products out of the S&T Research environments (e.g. ONR). Per FNC guidance, the S&T programs are to have funding split among the stakeholders using a (30/50/100%) shared cost model.

B. Program Change Summary (\$ in Millions)

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	6.539	5.500	9.105	-	9.105
Current President's Budget	6.287	5.500	8.599	-	8.599
Total Adjustments	-0.252	0.000	-0.506	-	-0.506
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.252	0.000			
• Program Adjustments	0.000	0.000	-0.500	-	-0.500

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• Rate/Misc Adjustments	0.000	0.000	-0.006	-	-0.006
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Change Summary Explanation

Technical: Not applicable.

The FY 2021 Funding request was reduced by \$0.500 million to account for the availability of prior year execution balances.

Schedule: Minor adjustments were due to contract awards and scheduled adjustment due to program adjusted due to overall funding adjustments (R3). R4 Scheduled changes due to increase in requirements for 55-1 consolidation of HR Systems and Data Warehouses.

Funding is required to address Studies and analysis in addition to the MPT&E Transformation plan. Transformation funds support Strategy, Architecture, Design, Requirements Definition, and Business Processes Re-Engineering for Single Point of Entry (SPOE), Authoritative Data Environment (ADE), and MPT&E Core efforts in FY18 only and were transferred to BSO39 PE 0605013N, Project 2905 in the outyears.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604703N / <i>Personnel, Trng, Sim, & Human Factors</i>				Project (Number/Name) 1822 / <i>Manpower Pers & Human Fact System</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
1822: <i>Manpower Pers & Human Fact System</i>	60.595	6.287	5.500	8.599	-	8.599	9.124	8.323	8.285	8.452	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program is under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision and the upgrading and enhancement of existing Manpower, Personnel, Training and Education (MPT&E) decision support systems, tools and models.

This non-acquisition category program provides funds for continued R&D for broader application of advanced technologies to transition successful research proof-of-concept demonstrations into operational use. This PE provides funding to support the transition of models and decision support tools from RDT&E funded to production and into the hands of analysts and program managers throughout the Manpower, Personnel, Training and Education enterprise. The PE also supports the application of proven industry models, tools and methodologies to Navy MPTE problems where GOTS solutions are non-existent. The second goal of the PE is to successfully implement 90% of the industry-standard tools that are attempted to be used in Navy applications. In FY21, there is a continued need to procure and advance the engineering development of systems from the Navy War Centers (e.g. NAWCTSD) and fiscally participate in the transition of MPTE-domain products out of the S&T Research environments (e.g. ONR). Per FNC guidance, the S&T programs are to have funding split among the stakeholders using a (30/50/100%) shared cost model.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Manpower Pers & Human Fact System	6.287	5.500	8.599	0.000	8.599
Articles:	9	8	10	-	10
Description: This program is funded under RDT&E operational systems development because it encompasses engineering and development of new end-items prior to production approval decision and the upgrading and enhancement of existing Manpower, Personnel, Training, and Education (MPT&E) decision support systems, tools and models.					
This non-acquisition category program provides funds for continued R&D for broader application of advanced technologies to transition successful research proof-of-concept demonstrations into operational use. This Program Element (PE) provides funding to support the transition of models and decision support tools from RDT&E funded to production and into the hands of analysts and program managers throughout the MPT&E					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>enterprise. The PE also supports the application of proven industry models, tools and methodologies to Navy MPT&E problems where government-off-the-shelf (GOTS) solutions are non-existent. The second goal of the PE is to successfully implement 90% of the industry-standard tools that are attempted to be used in Navy applications. In FY21, there is a continued need to procure and advance the engineering development of systems from the Navy War Centers (e.g. NAWCTSD) and fiscally participate in the transition of MPTE-domain products out of the S&T Research environments (e.g. ONR). Per FNC guidance, the S&T programs are to have funding split among the stakeholders using a (30/50/100%) shared cost model.</p> <p>Faced with complex challenges to efficiently and effectively attract, develop, and retain Navy Sailors, N1 has prepared an MPT&E Transformation plan to combat threats to mission readiness. The strategic vision and desired end-state of the endeavor is a holistic modernization of models, processes, and information technology, to dramatically improve the quality of MPT&E service delivery. There are too many Legacy IT Systems, an overly complex data management system, and limited Sailor-Self-Service options with no mobile access. The IT Transformation will focus on two primary strategies: maximizing the utilization of commercial-off-the-shelf (COTS) technologies and the implementation of cloud based technologies. Together these two approaches will improve both the service to Sailors and to Fleet readiness, reduce our technology footprint and increase accountability and audit readiness.</p> <p>In accordance with the MPT&E transformation plan, legacy systems will be replaced by modern and robust solutions that better support Navy's ability to execute its mission and efficiently allocate its resources. N1 will provide the access, schematics, and other pertinent information regarding the existing architecture, artifacts, and visualizations to enable this transformation. Migrating the data housed within these disparate systems to centralized, COTS-configured applications will reduce costs, eliminate redundancy, and streamline processes in accordance with the goals set forth in the transformational effort strategy. There are four key activities that set the foundation for holistic MPT&E transformation:</p> <ul style="list-style-type: none"> - Establish a Core Suite of Integrated HR Business Systems (MPT&E Core) - Integrated pay and personnel system to make the navy system accurate, timely and audit ready. - Establish World Class Sailor Self Service and Single Point of Entry (SPOE) - Put the Sailor "on-line" and provide access to their records via their smart phone in a Sailor friendly way. SPOE provides a single Web, Mobile, and Telephonic gateway for Sailors, Fleet leaders, and HR Professionals to access personnel systems and services. SPOE includes the standup and launch of the MyNavy Career Center which replaces 64 legacy Personnel Service Detachments with 2 centralized, modern, Sailor friendly call and service centers. In addition 					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>to labor costs, stand-up of the MNCC requires minor upgrades existing Navy Call Center facilities (Telephony) and implementation of modern Customer Relations Management software to allow initiation, tracking, and resolution of personnel action requests. SPOE also includes the creation of a web and mobile enabled portal that provides single sign on access to MPT&E IT applications via identity and access management, ability to generate action and service requests via the underlying Customer Relations Management software, and ability to conduct most needed personnel system actions via self-service.</p> <p>- Conduct Strategy, Architecture, Design, Requirements Definition, and Business Processes Re-engineering (Support / Infrastructure) - Fundamentally automate manual, mundane, "business as usual" processes and procedures to dramatically improve performance and reduce costs. Shift away from Navy data centers to fee for service, cloud based hosting.</p> <p>- Establish an Authoritative Data Environment and Comprehensive Analytics (ADE) - Create a single source of data truth supporting HR systems and provide a full suite of prescriptive, predictive, and descriptive analytics to both leadership and Sailors alike. ADE provides an accelerated path to good data and good analytics enabling good decisions. A modern, scalable cloud-based data environment using an API layer to deliver on "single source of truth" and adv. analytics (subsuming all other MPTE data sources); effort includes establishment of a data lake for analytics.</p> <p>Transformation leverages activities in existing programs of record and reshapes them to achieve a unified strategy and vision for IT and non-IT service delivery. Modernizing, integrating, and consolidating existing programs of record accelerates transformation while making the most of existing Navy resources. Additionally, transitioning legacy systems to COTS-configured applications will reduce costs, eliminate redundancy, and streamline processes in accordance with the goals set forth in the transformational effort strategy.</p> <p>FY 2020 Plans: Begin S&T development of AI/ML Training and HR systems Continued development of Individualized training integration systems of systems (My Navy World FNC) Continued development of Behavioral Science support tools and automation Continued S&T development of dynamic systems modeling tool for Manpower and Support Decision Making Continued Community Management and Strength Planning Model Enhancements and Integration Continued Development of Training Capacity Tradeoff Model Continued Enhancements of Products delivered via World Class Modeling Continued of Model Integration (Model Integration in the Transition Tail for the Manpower, Personnel, and Training Strategic Planning Application Science and Technology initiative that began in FY17 and ends in FY22.</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>This S&T initiative will develop a modeling integration architecture enabling the MPTE Enterprise/domain to fully integrate their suite of models into a single environment. Products from the S&T initiative will be in spiral development and begin delivery in Fiscal Year 19</p> <p>Continued S&T development of tool to support Ready, Relevant, Learning delivery systems of PQS and AR/VR</p> <p>Continue Recruiting tools and Selection Criteria algorithms</p> <p>Small Business Innovative Research (SBIR)</p> <p>FY 2021 Base Plans:</p> <p>Continue prototype development of AI/ML Training and HR systems</p> <p>Continue development of Individualized training integration systems of systems (My Navy World FNC)</p> <p>Continue development of Behavioral Science support tools and automation</p> <p>Continue S&T development of dynamic systems modeling tool for Manpower and Support Decision Making</p> <p>Continue Community Management and Strength Planning Model Enhancements and Integration</p> <p>Continue Development of Training Capacity Tradeoff Model</p> <p>Continue Enhancements of Products delivered via World Class Modeling</p> <p>Continue of Model Integration (Model Integration in the Transition Tail for the Manpower, Personnel, and Training Strategic Planning Application Science and Technology initiative that began in FY17 and ends in FY22.</p> <p>This S&T initiative will develop a modeling integration architecture enabling the MPTE Enterprise/domain to fully integrate their suite of models into a single environment. Products from the S&T initiative will be in spiral development and begin delivery in Fiscal Year 19</p> <p>Continued S&T development of tool to support Ready, Relevant, Learning delivery systems of PQS and AR/VR</p> <p>Continue Recruiting tools and Selection Criteria algorithms</p> <p>Small Business Innovative Research (SBIR).</p> <p>FY 2021 OCO Plans:</p> <p>N/A</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement:</p> <p>The increase from FY 2020 to FY 2021 is due to S&T projects which began to transition in FY19 and continue through FY21 where BSO22 will bear 100% of the transition costs for three projects. Hence the significant increase in transition funding from this Program Element. Our cost share in FY21 will be double of what is required in FY20. In addition to the transition of S&T project products in FY21, we will begin to move existing manpower, personnel and Training models out of their existing data centers and warehouses into</p>					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
the Authoritative Data Environment which will require re-platforming, integration, and enhancements of these models.					
Accomplishments/Planned Programs Subtotals	6.287	5.500	8.599	0.000	8.599

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 5				PE 0604703N / Personnel, Trng, Sim, & Human Factors					1822 / Manpower Pers & Human Fact System						
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Allot	NPRST : Millington, TN	9.140	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Development Support	Allot	CNP : Washington, DC	13.329	4.487	Jan 2019	1.850	Nov 2019	1.099	Nov 2020	-		1.099	Continuing	Continuing	Continuing
Development Support	Allot	NPC PMW-240 : Millington, TN	2.630	0.000		0.000		0.000		-		0.000	0.000	2.630	-
Development Support	Allot	NAWC-TSD : Orlando, FL	2.945	1.800	Nov 2019	1.000	Nov 2019	1.500	Nov 2020	-		1.500	Continuing	Continuing	Continuing
Development Support	Allot	SPAWAR : New Orleans, LA	5.100	0.000		0.000		0.000		-		0.000	3.600	8.700	-
Development Support	Allot	NPC, HP Texas : Millington, TN	1.450	0.000		0.000		0.000		-		0.000	0.000	1.450	-
Development Support	Allot	CNRC PMW 240 : Millington, TN	3.700	0.000		0.000		0.000		-		0.000	0.000	3.700	-
Development Support	Allot	NWC : Newport, RI	0.692	0.000		0.000		0.000		-		0.000	0.000	0.692	-
Transformation ADE Data and Analytics	Allot	PMW-240 : Various Locations	5.000	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Transformation MPTE Core Pilot Launch	Allot	PMW-240 : Various Locations	16.609	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Development Support	Allot	ONR : Arlington	0.000	0.000		1.500	Oct 2019	3.000	Dec 2020	-		3.000	0.000	4.500	-
Development Support	Allot	NSWCDD : Dam Neck	0.000	0.000		1.000	Oct 2019	2.500	Nov 2020	-		2.500	0.000	3.500	-
Development Support	Allot	SPAWAR : San Diego, CA	0.000	0.000		0.150	Oct 2019	0.500	Oct 2020	-		0.500	0.000	0.650	-
Subtotal			60.595	6.287		5.500		8.599		-		8.599	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604703N / <i>Personnel, Trng, Sim, & Human Factors</i>	Project (Number/Name) 1822 / <i>Manpower Pers & Human Fact System</i>
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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Need Item Text	C/BA	Not Specified : Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Subtotal			0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	N/A
Project Cost Totals			60.595	6.287		5.500		8.599		-		8.599	Continuing	Continuing	N/A

Remarks
 The increase from FY 2020 to FY 2021 is due to S&T projects, which began to transition in FY19 and continue through FY21 where BSO22 will bear 100% of the transition costs for three projects. Hence, the significant increase in transition funding from this Program Element. In addition to the transition of S&T project products in FY21 we will begin to move existing manpower personnel and Training models out of their existing data centers and warehouses into the Authoritative Data Environment which will require re-platforming, integration, and enhancements of these models.

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604703N / <i>Personnel, Trng, Sim, & Human Factors</i>	Project (Number/Name) 1822 / <i>Manpower Pers & Human Fact System</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1822				
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: Training/Supply Chain Mgmt Decision Support Systems Integration/Transition	1	2019	2	2023
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 11	2	2019	2	2019
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 12	4	2019	4	2019
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 13	2	2020	2	2020
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 14	4	2020	4	2020
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 15	2	2021	2	2021
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 16	4	2021	4	2021
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 17	2	2022	2	2022
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 18	4	2022	4	2022
Training/Supply Chain Mgmt Decision Support Systems Integration/Transition: T/SCMDS 19	2	2023	2	2023
Training Capacity Tradeoff Model: Training Capacity Tradeoff Model	1	2019	4	2025
Training Capacity Tradeoff Model: TCTM 11	2	2019	2	2019
Training Capacity Tradeoff Model: TCTM 12	4	2019	4	2019
Training Capacity Tradeoff Model: TCTM 13	2	2020	2	2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Training Capacity Tradeoff Model: TCTM 14	4	2020	4	2020
Training Capacity Tradeoff Model: TCTM 15	2	2021	2	2021
Training Capacity Tradeoff Model: TCTM 16	4	2021	4	2021
Training Capacity Tradeoff Model: TCTM 17	2	2022	2	2022
Training Capacity Tradeoff Model: TCTM 18	4	2022	4	2022
Training Capacity Tradeoff Model: TCTM 19	2	2023	2	2023
Training Capacity Tradeoff Model: TCTM 20	3	2023	3	2023
Training Capacity Tradeoff Model: TCTM 21	4	2023	4	2023
Training Capacity Tradeoff Model: TCTM 22	2	2024	2	2024
Training Capacity Tradeoff Model: TCTM 23	3	2024	3	2024
Training Capacity Tradeoff Model: TCTM 24	4	2024	4	2024
Training Capacity Tradeoff Model: TCTM 25	1	2025	1	2025
Training Capacity Tradeoff Model: TCTM 26	2	2025	2	2025
Training Capacity Tradeoff Model: TCTM 27	3	2025	3	2025
Training Capacity Tradeoff Model: TCTM 28	4	2025	4	2025
WCM Enhancements: WCM Enhancements	1	2019	4	2025
WCM Enhancements: WCM 2	3	2019	3	2019
WCM Enhancements: WCM 3	4	2020	4	2020
WCM Enhancements: WCM 4	2	2020	2	2020
WCM Enhancements: WCM 5	4	2020	4	2020
WCM Enhancements: WCM 6	2	2021	2	2021
WCM Enhancements: WCM 7	3	2021	3	2021
WCM Enhancements: WCM 8	4	2021	4	2021
WCM Enhancements: WCM 9	1	2022	1	2022
WCM Enhancements: WCM 10	2	2022	2	2022

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
WCM Enhancements: WCM 11	3	2022	3	2022
WCM Enhancements: WCM 12	4	2022	4	2022
WCM Enhancements: WCM 13	2	2023	2	2023
WCM Enhancements: WCM 15	3	2023	3	2023
WCM Enhancements: WCM 16	4	2023	4	2023
WCM Enhancements: WCM 17	2	2024	2	2024
WCM Enhancements: WCM 18	3	2024	3	2024
WCM Enhancements: WCM 19	1	2024	1	2024
WCM Enhancements: WCM 20	2	2025	2	2025
WCM Enhancements: WCM 21	1	2025	1	2025
WCM Enhancements: WCM 22	4	2025	4	2025
NMRS Advanced Analytics: STAMPS Advanced Analytics	1	2019	4	2021
NMRS Advanced Analytics: NMRS 10	1	2020	1	2020
NMRS Advanced Analytics: NMRS 11	4	2021	4	2021
Recruiting and Selection Tools: Recruiting and Selection Tools (RST)	1	2019	4	2023
Recruiting and Selection Tools: RST 2	4	2019	4	2019
Recruiting and Selection Tools: RST 3	1	2020	1	2020
Recruiting and Selection Tools: RST 4	4	2020	4	2020
Recruiting and Selection Tools: RST 5	2	2021	2	2021
Recruiting and Selection Tools: RST 6	4	2021	4	2021
Recruiting and Selection Tools: RST 7	2	2022	2	2022
Recruiting and Selection Tools: RST 8	4	2022	4	2022
Recruiting and Selection Tools: RST 9	2	2023	2	2023
Recruiting and Selection Tools: RST10	4	2023	4	2023
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, Training, Behavioral Science	1	2020	3	2024

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 2	1	2020	1	2020
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 3	4	2020	4	2020
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 4	1	2020	1	2020
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 5	1	2021	1	2021
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 6	2	2021	2	2021
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 7	4	2021	4	2021
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 8	1	2022	1	2022
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 9	2	2022	2	2022
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 10	3	2022	3	2022
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 11	4	2022	4	2022
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 12	1	2023	1	2023
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 13	2	2023	2	2023
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 14	3	2023	3	2023
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 15	4	2023	4	2023
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 16	1	2024	1	2024
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 17	2	2024	2	2024
Automation, AI, and ML Development (HR, Training, Behavioral Science): HR, TBS 18	3	2024	3	2024
My Navy World: My Navy World	2	2020	3	2025
My Navy World: MNW 1	2	2020	2	2020
My Navy World: MNW 2	3	2020	3	2020
My Navy World: MNW 3	1	2021	1	2021
My Navy World: MNW 4	2	2021	2	2021
My Navy World: MNW 5	3	2021	3	2021
My Navy World: MNW 6	4	2021	4	2021
My Navy World: MNW 7	1	2022	1	2022

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604703N / <i>Personnel, Trng, Sim, & Human Factors</i>	Project (Number/Name) 1822 / <i>Manpower Pers & Human Fact System</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
My Navy World: MNW 8	1	2022	1	2022
My Navy World: MNW 9	2	2022	2	2022
My Navy World: MNW 10	3	2022	3	2022
My Navy World: MNW 11	1	2023	1	2023
My Navy World: MNW 12	2	2023	2	2023
My Navy World: MNW 13	4	2023	4	2023
My Navy World: MNW 15	1	2024	1	2024
My Navy World: MNW 16	4	2024	4	2024
My Navy World: MNW 17	3	2025	3	2025
AI/ML-enabled HR systems: AI/ML-enabled HR Systems	3	2019	4	2023
AI/ML-enabled HR systems: AI/ML 2	3	2020	3	2020
AI/ML-enabled HR systems: AI/ML3	4	2020	4	2020
AI/ML-enabled HR systems: AI/ML 4	3	2021	3	2021
AI/ML-enabled HR systems: AI/ML 5	4	2021	4	2021
AI/ML-enabled HR systems: AI/ML 6	3	2022	3	2022
AI/ML-enabled HR systems: AI/ML 7	4	2022	4	2022
AI/ML-enabled HR systems: AI/ML 8	2	2023	2	2023
AI/ML-enabled HR systems: AI/ML 9	4	2023	4	2023